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## (54) RADIO TRANSMISSION EQUIPMENT

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a radio transmission equipment whose effective transfer rate by means of a carrier sense multiple access/collision detection system is high.

**SOLUTION:** When a transmission signal does not exist on LAN 10a and signals from radio terminals 13a, 13b and 13c are not received, repeaters 12a and 12b transmit idle signals to the radio equipments 13a, 13b and 13c. When the signals from the radio terminals 13a, 13b and 13c are received, the repeaters repeat the reception signals and transmit them to LAN10a and the radio terminals 13a, 13b and 13c. The radio terminals 13a, 13b and 13c start transmission when they detect the idle signals from the repeaters 12a and 12b, compare transmission signals with the received signals which are repeated by the repeaters 12a and 12b, and judge it to be the collision of radio lines when a compared result shows nonmatching.

